



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

022434 7590 05/06/2003 BEYER WEAVER & THOMAS LLP P.O. BOX 778 BERKELEY, CA 94704-0778 EXAMINER

KIM, YOUNG J

ART UNIT CLASS-SUBCLASS

1637 702-027000

DATE MAILED: 05/06/2003

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	09/495,668	02/01/2000	Sergey A. Selifonov	3271.002US1	5158	

TITLE OF INVENTION: METHODS OF POPULATING DATA STRUCTURES FOR USE IN EVOLUTIONARY SIMULATIONS

APPLN. ITPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE	CADITE DATEDITE	
	S) DUE DATE DUE	
nonprovisional NO \$1300 \$300 \$160	08/06/2003	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 <u>Fax</u> (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

CURRENT CORRESPONDENCE 022434 75	ns. TEADDRESS (Note: Legibly mail 590 05/06/200 ER & THOMAS L	rk-up with any corrections or use 3 LP		Note: A certifica Fec(s) Transmit accompanying p formal drawing, I hereby certify United States Po- envelope address transmitted to the	ress; and/or (b) indicating a sepa te of mailing can only be used for tal. This certificate cannot be apers. Each additional paper, si must have its own certificate of m Certificate of Mailing or Trans that this Fee(s) Transmittal is stal Service with sufficient postag ted to the Box Issue Fee address USPTO, on the date indicated be	r domestic mailings of the be used for any other uch as an assignment or ailing or transmission. mission being deposited with the the for first class mail in an above, or being facsimile	
			Sergey A. Selifono		3271.002US1	5158	
TITLE OF INVENTION: M		TING DATA STRUCTU	RES FOR USE IN	EVOLUTIONAR	Y SIMULATIONS		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	ICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1300		\$300	\$1600	08/06/2003	
EXAMI	NER	ART UNIT	CLASS-SUBCI	ASS			
KIM, YO	UNG J	1637	702-02700	00			
PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless a	n assignee is identified b to the USPTO or is being	Use of a Customer D BE PRINTED ON THE elow, no assignee data w submitted under separate	registered pater is listed, no name PATENT (print could appear on the percover. Completic	patent. Inclusion of	ats. If no name 3 assignee data is only appropriate OT a substitute for filing an assign	when an assignment has nment.	
Please check the appropriate				individual 🗅	Corporation or other private gro	oup entity	
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☐ Issue Fee ☐ Publication Fee				d. Form PTO-2038			
Advance Order - # of C	opies	☐ The	ne Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to				
Commissioner for Patents is	requested to apply the Iss	<u>_</u>	it Account Numbe ee (if any) or to re		(enclose an extra copy of this for a copy of this f		
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if req a registered attorney or cords of the United States	uired) will not be accep agent; or the assignee of Patent and Trademark O	ted from anyone or other party in office.				
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner Under the Paperwork Research	y is governed by 35 U.S.C test to complete, including in to the USPTO. Time the amount of time yo his burden, should be se Diffice, U.S. Departmen END FEES OR COMP for Patents, Alexandria, V	2. 122 and 37 CFR 1.14. If g gathering, preparing upd will vary depending upd u require to complete the to the Chief Information of Commerce, Alex LETED FORMS TO TO Virginia 22313-1450.	This collection is and submitting the on the individual this form and/or ion Officer, U.S. andria, Virginia HIS ADDRESS.				
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United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Vinginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/495,668 02/01/2000		Sergey A. Selifonov	3271.002US1	5158		
022434	7590 05/06/2003		EXAMIN	ER		
BEYER WEAV P.O. BOX 778	ER & THOMAS LLF		KIM, YOUNG J			
BERKELEY, CA	94704-0778		ART UNIT	PAPER NUMBER		
			1637			
		Г	ATE MAIL ED: 05/06/2003			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1459 Alexandria, Viginia 22313-1459

APPLICATION NO.	CATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/495,668 02/01/2000		Sergey A. Selifonov	3271.002US1 5158			
022434	7590 05/06/2003		EXAMINER			
BEYER WEAVER & THOMAS LLP P.O. BOX 778			KIM, YOUNG J			
	BERKELEY, CA 94704-0778			PAPER NUMBER		
UNITED STATES			1637			
			DATE MAILED: 05/06/2003			

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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,	Application	No.	Applicant(s)	
Nation of Allamability	09/495,668		SELIFONOV ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Young J. Kir	n .	1637	
	Tourig 3. Kil		1007	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS In therewith (or previously mailed), a Notice of Allowance (PTOL-8) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAIN 5) or other appro RIGHTS. This a	S) CLOSED in this ap opriate communication application is subject t	oplication. If not included n will be mailed in due cou	urse. THIS
1. X This communication is responsive to the Amendment rec	ceived on April :	21 2003		
 This communication is responsive to <u>the Amendment rec</u> The allowed claim(s) is/are <u>1-10,12-25,27-30 and 45-57.</u> 		<u>, 1, 2000.</u> .		
3. The drawings filed on are accepted by the Examin				
Acknowledgment is made of a claim for foreign priority u	•	& 119(a)-(d) or (f).		
a) All b) Some* c) None of the:	11401 00 010.0.	3 7 10(2) (3) 5. (1):		
1. ☐ Certified copies of the priority documents ha	ve been receive	d.		
2. ☐ Certified copies of the priority documents ha				
Copies of the certified copies of the priority of the pri				from the
International Bureau (PCT Rule 17.2(a)).			палопал окадо арриоано.	
* Certified copies not received:		,		
5. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C	. & 119(e) (to a provis	ional application).	
(a) ☐ The translation of the foreign language provisional				
6. Acknowledgment is made of a claim for domestic priority	• •			
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Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of	of this communiof this applicatio	ication to file a reply c n. THIS THREE-MO	omplying with the required NTH PERIOD IS NOT EX	ments noted
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives re				FICE OF
8. X CORRECTED DRAWINGS must be submitted.				
(a) ⊠ including changes required by the Notice of Draftspo	erson's Patent [Orawing Review (PTC	0-948) attached	
1) ☐ hereto or 2) ☒ to Paper No. <u>5</u> .			·	
(b) ☐ including changes required by the proposed drawing	a correction filed	, which has t	peen approved by the Exa	miner.
(c) including changes required by the attached Examine				
(o) in marging changes required by the change in in-			•	
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pap	t 1.84(c)) should per with a transm	be written on the drawi ittal letter addressed to	ings in the top margin (not the Official Draftsperson.	the back)
 DEPOSIT OF and/or INFORMATION about the department of the department o	oosit of BIOLO	GICAL MATERIAL OF BIOLOGICAL MA	must be submitted. Not ATERIAL.	e the
Attachment(s)				
1 Notice of References Cited (PTO-892)		2 Notice of Inform	nal Patent Application (PT	O-152)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)	- 3		nary (PTO-413), Paper No	· <u> </u>
5 Information Disclosure Statements (PTO-1449), Paper No.	13.33. M	6⊠ Examiner's Ame		
7 Examiner's Comment Regarding Requirement for Deposit		8∐ Examiner's Stat 9∏ Other .	ement of Reasons for Allo	wance
of Biological Material		ى Oulei .		

Application/Control Number: 09/495,668

Art Unit: 1637

Page 2

DETAILED ACTION

Information Disclosure Statement

The IDS received on July 2, 2002 (Paper No. 13), and the documents listed therein, specifically, documents AA through AU, have been considered. However, the documents have been lined-through so as to avoid publication in the face of the issued patent because, although the Inventions were commonly assigned, the inventive entity differed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Weaver on April 30, 2003.

The application has been amended as follows:

In the Claims:

Claims 31-44 have been canceled for being drawn to non-elected invention.

Claim 5 (currently Amended) The method of claim 4, wherein said two or more amino acid sequences comprise an amino acid sequence encoding a naturally occurring protein.

In claims 7 through 10, the phrase, "said selecting" is replaced with the phrase, "said selecting in (ii)".



Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (703) 308-9348. The Examiner can normally be reached from 8:30 a.m. to 7:00 p.m. Monday through Thursday. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Gary Benzion, can be reached at (703) 308-1119. Papers related to this application may be submitted to Art Unit 1637 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. The Fax number is (703) 746-3172. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Young J. Kim

4/30/03

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media, optical media, and optomagnetic media.

KENNETH R. HORLICK, PH.D. PRIMARY EXAMINER

5/1/03

